

PROPOSED AMENDED ABSTRACT

The invention relates to a device for the determination of determining flow parameters of a fluid, in particular, particularly the temperature and flow speed and changes therein, in a fluid flow for monitoring, a method for operating such a device, a determination method itself and a fire recognition or oxygen measuring device provided with such a device are provided. The aim of the invention is the recognition of a slow or sudden blockage, crack or break in a pipe system (13) of an aspirative fire recognition device is recognized by means of a measurement technique, whereby an air flow sensor (1), operated with a constant excess temperature, is combined with a regulation algorithm, running in a microprocessor (4), for monitoring the pipe system fluid flow or the flow resistance in the pipe system (13). The required resistance of the air flow sensor (1) can thus be calculated according to by an exact sensor calibration curve and a precise control loop (3) formed. The measured values recorded by the air flow sensor (1) are thus extremely reliable, such that changes in condition for the flow parameters provide information about the state of the pipe system (13) or the intake system.